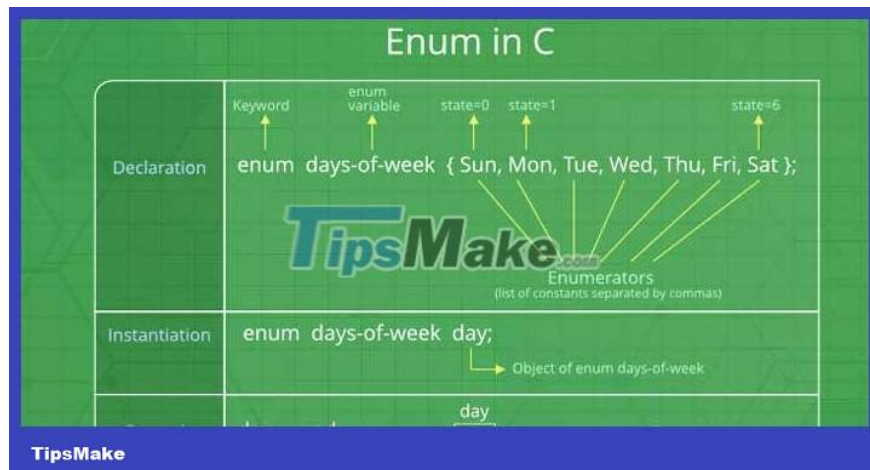


Enumeration (enum) in C

What is enumeration (enum) in C? How to use Enum in C? Let's find out with TipsMake.com.com!

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What is Enum in C?

Enum is a special type, representing a group of constants (values that cannot be changed).

To create an **enum in C**, use the enum keyword, followed by the name of the enum, and separate the enum items with a comma:

```
enum Level { LOW, MEDIUM, HIGH };
```

Note that the last item does not need a comma. You don't have to capitalize, but it's generally recommended.

Enum is an abbreviation for enumeration. It means 'to enumerate specifically'.

To access the enum, you must create a variable for it. Inside the method `main()`, specify the enum keyword, followed by the name of the enum (`Level`), then the name of the enum variable (`myVar`) in this example):

```
enum Level myVar;
```

Now that you have created an enum variable (`myVar`), you can assign it a value.

The attached value must be one of the items inside enum (`LOW`, `MEDIUM` or `HIGH`):

```
enum Level myVar = MEDIUM;
```

By default, the first item (LOW) has value 0, the second item (MEDIUM) has value 1.

Now if you try printing myVar, it will produce the result 1, representing MEDIUM:

```
#include enum Level { LOW, MEDIUM, HIGH }; int main() { // T?o m?t bi?
n enum v? g?n cho n? m?t giá tr? enum Level myVar = MEDIUM; // Print bi?
n enum printf("%d", myVar); return 0; }
```

Change the values

As you know, the first item of the enum has value 0. The second item has value 1...

To make the values ??more meaningful, you can easily change them:

```
#include enum Level { LOW = 25, MEDIUM = 50, HIGH = 75 }; int main() { enum Level
```

Note that if you assign a value to an item, the next item will update the corresponding number:

```
enum Level { LOW = 5, MEDIUM, // Now 6 HIGH // Now 7 };
```

Enum in a Switch command

Enum is often used in Switch commands to check corresponding values:

```
enum Level { LOW = 1, MEDIUM, HIGH }; int main() { enum Level myVar = MEDIUM; sw
```

Why and when to use Enum in C?

1. Enum in C is used to name constants. That makes the code easier to read and maintain.
2. Use enum in C when you have immutable values ??like date, color, tag set.

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